

Exhibit 12

☒ NCBI☒ PubMedEntrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals  
Search PubMed for Go Clear

Limits Preview/Index History Clipboard Details

Display Abstract Show: 20 Sort Send to Te

About Entrez

Text Version

☐ 1: Biotechnology (N Y). 1991 Sep;9(9):835-8.[Related Article](#)Entrez PubMed  
Overview  
Help | FAQ  
Tutorial  
New/Noteworthy  
E-UtilitiesPubMed Services  
Journals Database  
MeSH Database  
Single Citation  
Matcher  
Batch Citation  
Matcher  
Clinical Queries  
LinkOut  
CubbyRelated Resources  
Order Documents  
NLM Catalog  
NLM Gateway  
TOXNET  
Consumer Health  
Clinical Alerts  
ClinicalTrials.gov  
PubMed Central**Transgenic production of a variant of human tissue-type plasminogen activator in goat milk: generation of transgenic and analysis of expression.****Ebert KM, Selgrath JP, DiTullio P, Denman J, Smith TE, Memon M Schindler JE, Monastersky GM, Vitale JA, Gordon K.**

Tufts University School of Veterinary Medicine, North Grafton, MA 015

We report the first successful production of transgenic goats that express heterologous protein in their milk. The production of a glycosylation variant human tPA (LAtPA--longer acting tissue plasminogen activator) from an expression vector containing the murine whey acid promoter (WAP) open linked to the cDNA of a modified version of human tPA was examined in transgenic dairy goats. Two transgenic goats were identified from 29 animals. The first animal, a female, was mated and allowed to carry the pregnancy. Milk was obtained upon parturition and was shown to contain enzymatically active LAtPA at a concentration of 3 micrograms/ml.

PMID: 1367544 [PubMed - indexed for MEDLINE]

Display Abstract Show: 20 Sort Send to Te

[Write to the Help Desk](#)[NCBI](#) | [NLM](#) | [NIH](#)[Department of Health & Human Services](#)[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Oct 28 2004 14:51:27

**BEST AVAILABLE COPY**Applicants: Hermona Soreq et al.  
Serial No. : 09/310,638  
Filed: May 12, 1999  
Exhibit 12